

LESOUKAYA, H.D., kand.med.nauk; ALEKSEYEVA, V.G.; MURINA, L.D.

Adio syndrome. Vest. derm. i ven. 38 no.9:71-73 S '64.

(MIRA 18:4)

1. Leningradskaya dermatologicheskaya bol'nitsa (glavnyy vrach
S.I.Brodskiy).

L 35909-46 EST(11) FSS-2

ACC NR: AP6010790

SOURCE CODE: UR/0106/66/000/002/0056/0066

AUTHOR: Aleksseyeva, V. G.

ORG: none

TITLE: Phase distortion in transmission systems and "image" characteristics of signals

SOURCE: Elektrosvyaz', no. 2, 1966, 56-66

TOPIC TAGS: transmission system, signal transmission, phase distortion

ABSTRACT: It has been repeatedly pointed out that a symmetrical pulse loses its symmetry when phase distortion occurs. This article attempts to explore the causes of disruption of "image" characteristics of signals; each function $F'(t)$ and $F''(t)$ is an "image" of the other if $F'(t) = F''(-t)$ and $F'(-t) = F''(t)$. The system response to the application (cessation) of a unit step voltage is called turn-on (turn-off) function. Equations are set up and investigated which describe a system with ideal phase characteristic, a 1-f system with phase distortion, and a band-pass system with phase distortion. Experimental data on a multiplexing single-repeater channel published elsewhere is compared with some data estimated from

Card 1/2

UDC: 621.391.833.2

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ACC NR: AP6010790

the theory developed in this article. These conclusions are offered re transients accompanying the application and cessation of symmetrical pulses: (1) At the output of an ideal-phase-frequency-characteristic 1-f system, the turn-on and turn-off functions have "image" characteristics; the pulses preserve their symmetry; (2) At the output of a phase-distorting system, the above functions lose their "image" characteristics; pulses become asymmetrical; (3) At the output of a band-pass filter having an ideal phase frequency characteristic, the turn-on and turn-off function envelopes are "images," but are connected by nonlinear relations; the pulses are symmetrical; (4) At the output of a band-pass system having arbitrary phase distortion, the envelopes are not "images" and are connected by nonlinear relations; the pulses are asymmetrical; (5) A two-band transmission of signals over a system having even curves of amplitude and phase distortions is an exception to the general rule of determining phase distortion by the disruption of symmetrical properties. Orig. art. has: 7 figures and 30 formulas.

SUB CODE: 09 / SUBM DATE: 25May65 / ORIG REF: 004 / OTH REF: 002

Card 2/2 *all*

ACC NR: AP6033587

SOURCE CODE: UR/0181/66/008/010/3138/3140

AUTHOR: Alekseyeva, V. G.; Landsberg, Ye. G.

ORG: Institute of Radio Engineering and Electronic AN SSSR, Moscow (Institut radiotekhniki i elektroniki AN SSSR)

TITLE: Certain electric and photoelectric properties of the compound SbSI

SOURCE: Fizika tverdogo tela, v. 8, no. 10, 1966, 3138-3140

TOPIC TAGS: antimony compound, photoelectric property, semiconductor single crystal, ferroelectricity, resistivity, activation energy, Hall effect, electron mobility, absorption band

ABSTRACT: The authors have investigated the electric and photoelectric properties of single crystals of SbSI in the ferroelectric region. Small amounts of LiI were introduced into some of the single crystals. The temperature dependence of the resistivity was measured in the 15 - 40°C range. The resistivity decreased exponentially with increasing temperature, with an activation energy close to that obtained by J. Sasaki (Japan J. Appl. Phys. v. 4, 228, 1965 and earlier). The carrier mobility could be determined from the Hall effect only for lithium-doped crystals and amounted to 50 - 100 cm²/v-sec. The sign of the Hall emf corresponded to n-type conductivity. The photoconductivity of lithium doped crystals, measured after prolonged storage in

Cord 1/2

ACC NR: AP6033587

darkness, was 10 - 20 times larger than that of the pure samples. Both samples showed smearing of the long-wave edge of the absorption band and a rapid decrease in the photocurrent in the short-wave side corresponding to the intrinsic absorption. The low short-wave sensitivity is attributed to surface recombination. The decrease in photoconductivity has a complicated character. Measurements of the thermally stimulated conductivity disclosed the presence of adhesion centers, but they were unstable and disappeared under the influence of light or heating. The experimental results are interpreted from the point of view that both doped and undoped samples contained two types of defects, stable and unstable, and the latter are strongly affected by illumination. The authors thank S. G. Kalashnikov for a discussion of the results. Orig. art. has: 2 figures.

SUB CODE: 20/ SUBM DATE: 12Mar66/ ORIG REF: 001/ OTH REF: 004

Card 2/2

ACC NR: AR6035207

SOURCE CODE: UR/0274/66/000/008/A011/A011

AUTHOR: Alekseyeva, V. G.

TITLE: The effect of nonuniformity in the amplitude spectrum of a signal and the transmission coefficient of the signal compression circuit on the shape of the output signal

SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz', Abs. 8A71

REF SOURCE: Tr. Leningr. in-t aviats. priborostr., vyp. 45, 1965, 38-48

TOPIC TAGS: spectrum, radio signal, frequency modulation, filter, amplitude, signal amplitude, output signal

ABSTRACT: The effect of a deviation from the constant value of the product of the spectral density of an excitation signal with a linear frequency modulation on the transmission coefficient of a filter with a rectangular frequency characteristic and a quadratic phase dispersion was investigated. It is shown that it leads primarily to an increase in the minimum spacings separating two adjacent iterative signals. [Translation of abstract]

SUB CODE: 17/

[NT]

Cord 1/1

UDC: 621.391.14

KORYAKIN, I.S.; ALEKSEYEVA, V.G.; GOVOROVA, M.S.; VORONINA, T.V.;
MAVIBAYEV, F.A.; DEMIDOVA, S.I.; KAZANTSEVA, G.V.; MOROZ, V.M.;
MUKHINA, N.S.; PIPIN'YAN, P.O.; SHTIPANOVA, A.K.

Trace elements in drinking water sources of Kazakhstan and their
relations to the problem of some noninfectious diseases. Vest. AMN
SSSR 89 no.7:90-98, '64. (MIRA 18:3)

1. Alma-Atinskiy meditsinskiy institut.

ALEXSEYEV, V.I., starshiy inzh.

Track patrol. Put' i put.khoz. 5 no.10:25 0 '61. (MIRA 14:10)

1. Poronayskaya distantiya Yushno-Sakhalinskoy dorogi.
(Railroads—Track)

SVETLOVA, Ye.S.; ALKHEYEVA, V.I.

Suprasegmental inhibition of intersubular spinal neurons in cats
with local tetanus. Dokl. Ak. Nauk SSSR 243 no.5:1270-1272, 1979. 5.
(MIRA 18:8)

1. Viktor Moskovskiy ne Otkrytiy Institut in. N.I.I. in 1979.
Submitted October 17, 1979.

ALEKSEYEVA, V.I., kand.med.nauk

Chalcosis of the eye and its treatment by negative ionization.
Vest.sft. no.4:13-18 '62. (MIRA 15:11)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut glaznykh
bolezney imeni Gel'mgol'tsa.
(EYE--DISEASES AND DEFECTS) (COPPER IN THE BODY)
(ELECTROPHORESIS)

ALEKSEYKVA, Vera Ivanovna; VAYNSHTEYN, Ye.S., red.

[Chalcosis of the eye] Khal'koz glaza. Moskva, Meditsina, 1965. 113 p. (MIRA 18:5)

ALEKSEYEV, V. A.

Quantitative spectrum analysis of solutions.
 IV. Determination of cadmium and zinc. A. K.
 RYKOV and V. M. ALEXEYEV (Zavod. Lab., 1934,
 7, 963--967).---(1) 25% Zn and 25% Cd obtained in solutions,
 by comparison of the intensity of the lines Cd 4790-91-
 Mn 4823-80 A., Zn 4783-16-Mn 4783-43 A., Zn 4810-53-
 Mn 4823-80 A. The error is $\pm 4.5\%$ for solutions
 containing 0.03--1% of Cd, and $\pm 3.7\%$ for solutions
 containing 0.01--1% of Zn. R. T.

ASTM 100 METALLURGICAL LITERATURE CLASSIFICATION

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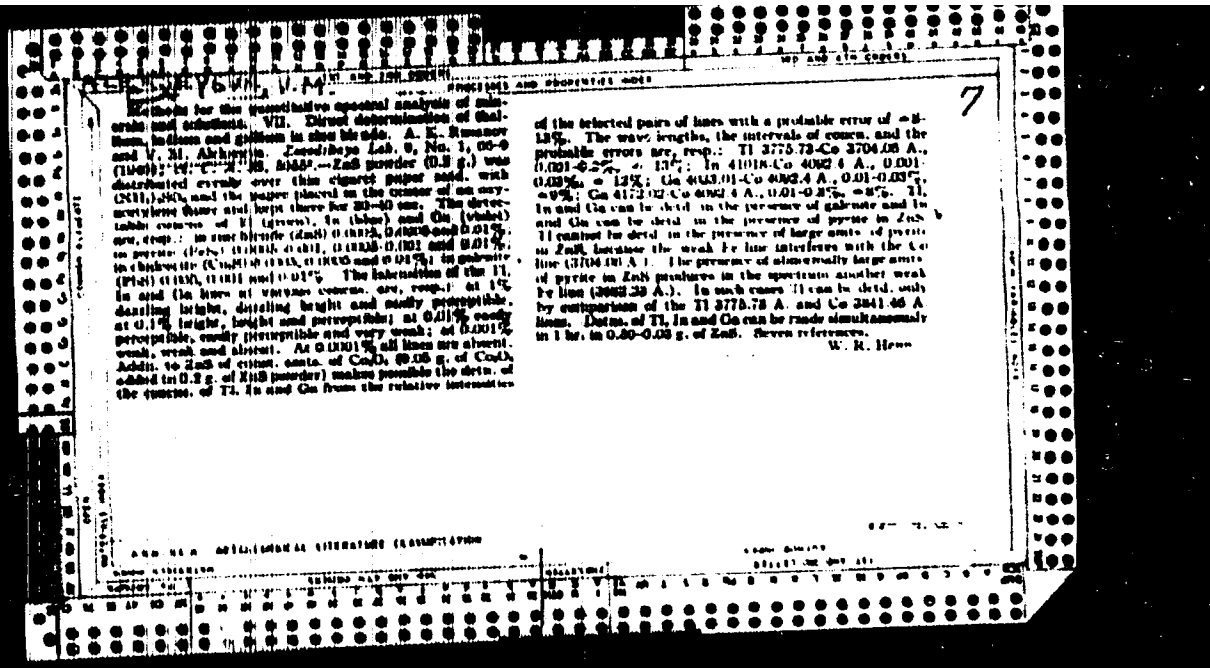
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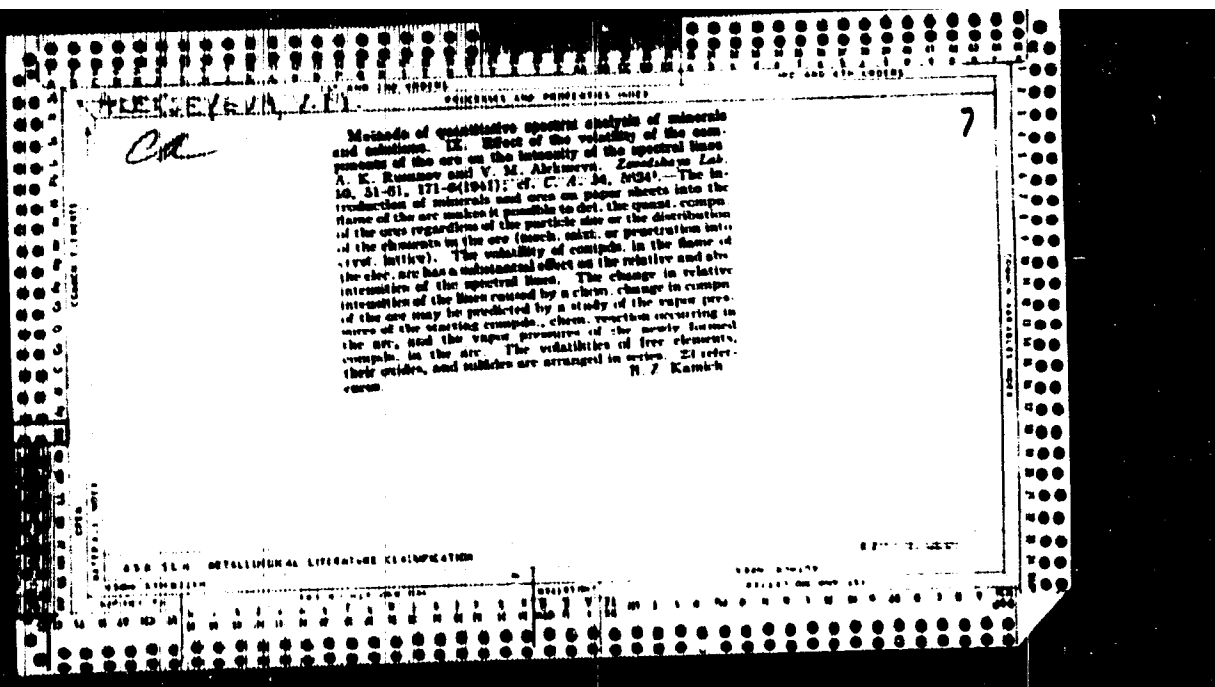
АЛЕКСЕЕВНА, В.М.

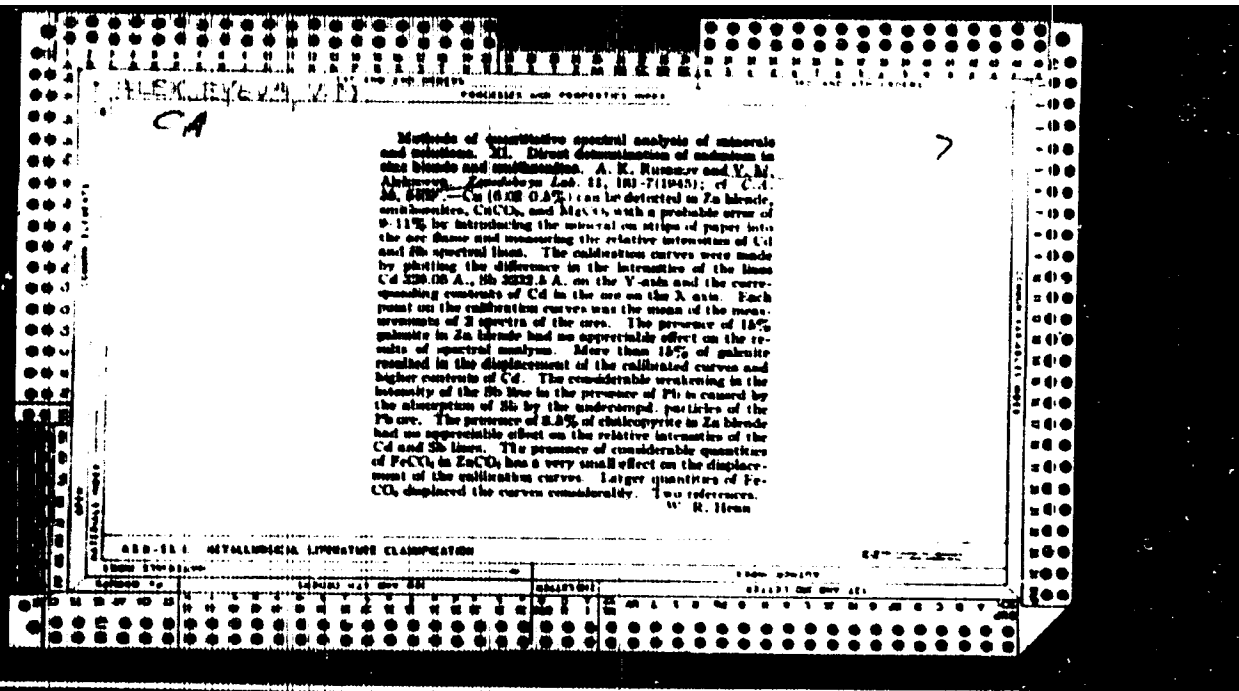
Spectral analysis of solutions and minerals. A. K. Rusanov and V. M. Alekseeva. *Zashchita* Lab. 8, 953 (1959). — The intensities of the lines No. 5600.0 and 5613.0 Å. — Cr 8187.96 Å. and Li 6103.60 Å. Manganese A. were measured to det. Na and Li. With a 2-ml. sample the Na can be detd. down to a concn. of 0.001% and Li to 0.0005%. These elements can be detd. in the presence of other alk. metals with a probable error of $\pm 1.5\%$ for Li within the concn. range of 0.001–0.2% and $\pm 4.0\%$ for Na for the concn. range of 0.001–0.1%.

И. З. К.

NEW YORK METALLURGICAL LITERATURE CLASSIFICATION







ALAKSEYEV, V. M.

USSR/Chemistry - Spectral analysis

Part 1/2 : Pub. 145 - 1/14

Authors : Rusanov, A. K., and Alakseyev, V. M.

Title : Horizontal DC-arc as a source of excitation of the spectrum of ores and minerals

Periodical : Zhur. anal. khim. 9/4, 183-182, Jul-Aug 1954

Abstract : The applicability and advantage of a horizontal carbon-arc, placed between two charged graphite-electrodes and used as a source of excitation of ore and mineral spectra, are described. The general law governing the symmetrical distribution of intensities of arc and spark lines of elements in a horizontal DC-arc, which depends very little upon the properties of the elements and volatility of the compounds, was established.

Institution : All-Union Scientific Research Institute of Mineral Raw Materials, Moscow

Submitted : April 8, 1954

Periodical : Zhur. Anal. Khim. 15/4, 183-192, Jul-Aug 1954

Card 2/2 : Pub. 145- 1/14

Abstract : The distribution of line intensities in an arc flame, based on measured temperature distribution and relative atom concentration in the arc, is explained. Eight references: 7-USSR and 1-German (1950-1952). Graphs, drawings.

"APPROVED FOR RELEASE: 09/24/2001

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CIA-RDP86-00513R000101010010-7"

5.5-10

7774
SOV. TS-1-1-6/10

AUTHORS: Alekseyev, V. M., Romanov, A. K.
TITLE: Spectral Determination of Scandium in Ores
PERIODICAL: Zhurnal prikladnoy khimii, 1960, Vol. 33, No. 1, pp. 17-19 (USSR)
ABSTRACT: Spectrographic determination of scandium in alloyed ores was studied. The following apparatus and materials were used: horizontal graphite electrodes (see Fig. 1); auto-recording spectrophotometer ES-10 with glass optics; and buffer powder consisting of equal parts (by weight) of carbon and SrCO_3 into which 0.1% of lanthanum oxide is introduced. A sample of the analyzed ore (0.05 g) is mixed with the buffer powder (0.5 g); current (a-c) of 25 amp and 110 v is applied.

Chem 1/5

Fig. 1. Graphite electrodes and the buffer.



Spectral Determination of Scandium in Cores

Y. Y. Y.

$SGV, \lambda_{01} = 10.1 - 0.1/0.1$

Calibration graphs (see Fig. 2) were used.

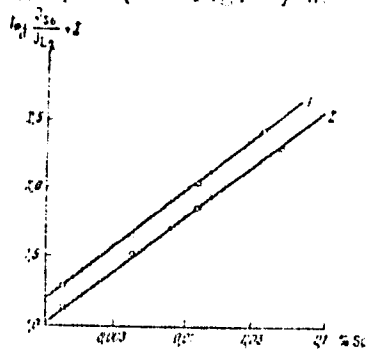


Fig. 2. Dependence of relative I_{01} and I_{02} line intensities on the concentration of Sc in cores: (O) Sc II, 400.84 and in II, 400.84; (□) Sc II, 400.84 and in II, 400.84.

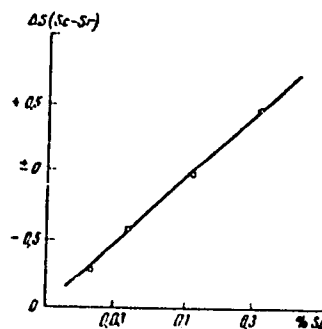
Chem. 1974

Spectral Determination of Scandium in Ores

77744

SOV/75-15-1-6/29

Fig. 3. Dependence of difference in darkening of lines of Sc, 2552.36 and Sr, 2423.6, on the concentration of Sc in the ore.



There are 2 tables; 3 figures; and 10 references, 2 U.K., 1 German, 7 Soviet. The 1 U.K. references are: Ahrens, L. H., Spectrochem. Analysis, Cambridge (1950); Kvalheim, A., Strock, W., Spectrochem. Acta, 1, 221 (1959).

Card 4/5

Spectral Determination of Scandium in Ores

77744

SOV/75-15-1-6/29

Using the proposed method, 0.001-0.1% Sc can be determined in silicate ores with an accuracy of +10% (see Table 2). Composition of the ores has practically no effect on the results, except for the presence of Ce (1%), which interferes, since the analytical Sc line overlaps the Ce line (4246.4). The analyzed sample should not contain Ia (over 1%) since it is used as internal standard in this case.

Table 2. (1) Composition of sample; (2) scandium; (3) taken, %; (4) found, %; (5) relative error of a single determination; (6) quartz; (7) quartz 50% and feldspar 50%; (8) the same; (9) quartz 50% and Al_2O_3 50%; (10) quartz 50% and $CaCO_3$ 50%; (11) quartz 50% and MgO 50%; (12) quartz 50% and Fe_2O_3 50%.

Card 3/5

(1)	(2)		(5)
	(3)	(4)	
(6)	0.0185	0.0180	-2.7
(7)	0.0185	0.0180	-2.7
(8)	0.041	0.042	+2.4
(9)	0.041	0.040	-2.4
(10)	0.0060	0.0060	+0
(11)	0.041	0.045	+9.8
(12)	0.0185	0.0190	+2.7
(1)	0.041	0.044	+7.3
(12)	0.0185	0.0190	+2.7
(1)	0.041	0.038	-12.2

Spectral Determination of Scandium in Ores

77744

SCV/TS-15-1-6/29

ASSOCIATION: All-Union Institute of Mineral Raw Materials, Moscow
(Vsesoyuznyy institut mineral'nogo syr'ya, Moskva)

SUBMITTED: October 29, 1958

Card 5/5

IVANOV-MIROSLAVTSEV, Petr Ivanovich; SIDOROV, P.A., red.; ALEKSEYEVA, V.M.,
red.; PETROV, G.P., tekhn. red.

[New branches of the Chuvashian industry] Novye otrosli promyshlen-
nosti Chuvashii. Cheboksary, Chuvashskoe gos. izd-vo, 1960. 39 p.
(MIRA 14:7)

(Chuvashia--Industries)

RUSANOV, A.K.; ALEKSEYEVA, V.M.; KHITROV, V.G.; MATIS, T.I., red.isd-vs;
BIRKOVA, V.V., tekhn.red.

[Quantitative spectral determination of rare and scattered
elements in ores and minerals] Kolichestvennye spektral'noe
opredelenie redkikh i rasseliannykh elementov v rudakh i mine-
ralakh. Moskva, Gos.nauchno-tekhn.isd-vo lit-ry po geologii
i okhrane nedr, 1960. 194 p. (MIRA 13:11)
(Metals, Rare and minor)

ALEKSEYEVA, V.M.; NIKONOVA, Ye.A.; MYAGKOV, V.A.

Effect of different surface active agents on the deaeration of
viscose and defoaming of a spinning bath. Khim.volok. no.3:30-33
'61. (MIRA 14:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut steklyanogo
volokna.

(Surface active agents)
(Viscose)

S/075/62/017/007/001/006
B119/B166

AUTHORS: Rusanov, A. K., Alekseyeva, V. M., Il'yasova, N. V., and
Khitrov, V. G.

TITLE: Spectrographic quantitative determination of small concentra-
tions of rare earths in rocks and minerals

PERIODICAL: Zhurnal analiticheskoy khimii, v. 17, no. 7, 1962, 809 - 819

TEXT: A direct simultaneous determination of rare earths in ores was made using a DSC-13 (DPS-13) diffraction spectrograph having a dispersion of $4 - 2 \text{ \AA/mm}$. The spectrum was excited by evaporating the powder sample, mixed with buffer mixture, in a carbon arc discharge. Otherwise, the procedure followed the traditional spectrographic method. The standard experimental error of the method is 15%. The sensitivity of determination is 0.001% for Yb, 0.003% for Tu and Y, 0.005% for La, 0.01% for Nd, 0.03% for Pr, Gd, Dy, and Lu, 0.04% for Ce, 0.05% for Sm, Eu, Tb, Ho, and Er. The sensitivity can be increased to the 30 - 100 times by a simple chemical enrichment of the samples with rare earths. In the original paper the analytic spectrum lines of the rare earths and of the disturbing elements

Card 1/2

Spectrographic quantitative determination...

S/075/62/017/007/001/006
B119/B186

were tabulated on 5 pages. There are 3 figures and 4 tables. The most important English-language reference is: J. A. Norris, C. E. Repper, *Analyt. Chem.* 24, 1399 (1952).

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya, Moskva (All-Union Scientific Research Institute of Mineral Raw Materials, Moscow)

SUBMITTED: December 30, 1961

Card 2/2

FIKHMAN, V.D.; ALEXSEYEV, V.M.; PAKSHVER, A.B.

Effect of heat treatment on the properties of polyvinyl chloride
fibers. Khim. volok. no.2:12-15 '65. (MIRA 18:6)

1. VNIISV.

ALENSEYEV, V. M.

20191 ALENSEYEV, V. M. Prakticheskiye zanyatiya po fiziologii .
Estestvoznaniye v shkole, 1949, No. 3, s. 88-90

SO: IETCIS JOURNAL STATEY, Vol. 27, Moskva, 1949.

ALL THE YAKOV, 1958.

ALEKSEYEVA, V.M.

Protective role of fatty matter in radiation injury of cells [with
summary in English]. Biofizika 3 no.1:101-107 '58, (MIRA 11:2)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.
(RADIATION--PHYSIOLOGICAL EFFECT) (FAT) (YEAST)

ALIKSHTEVA, V.M. dots.

Preparation of bone marrow extract and its influence on the body in radiation sickness. Akt.vop.parel.krovi no.6:84-89 '58.

(MIRA 13:1)

1. Radiobiologicheskaya laboratoriya Leningradskogo instituta pereli-vaniya krovi (sav. laboratoriyey - starshiy nauchnyy sotrudnik G.M. Murav'yev).

(TISSUE EXTRACTS) (RADIATION SICKNESS)

ALEKSEYEVA, V.M.

On so-called lipophanerosis observable in irradiated cells. Zhur.
ob. biol. 22 no.2:146-149 Mr-Apr '61. (MIRA 14:5)

1. Institut biofiziki AN SSSR.
(FAT) (YEAST) (RADIATION—PHYSIOLOGICAL EFFECT)

MEYSEL', M.N.; MEDVEDEVA, G.A.; ALEKSEYEVA, V.M.

Detection of live, injured and dead micro-organisms. Mikrobiologiya
30 no.5:855-62 8-0 '61. (MIRA 14:12)

1. Institut mikrobiologii AN SSSR i Institut biofiziki AN SSSR.
(MICRO-ORGANISMS)

ALEKSEYEVA, V. M.

Dissertation defended at the Institute of Microbiology for the academic
degree of Candidate of Biological Sciences: 1962

"Fatty and Lipoid Cellular Substances, Their Condition and Significance
Upon Radiation Exposure."

Vestnik Akad Nauk No. 4, 1963, pp. 119-145

34757

S/020/62/142/003/025/027
B144/B101

27.1220

AUTHORS: Aleksayeva, V. M., and Meysel', M. N., Corresponding Member
AS USSR

TITLE: Importance of intracellular fat reserves for cell reactivation
after radiation injuries

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 142, no. 3, 1962, 699-701

TEXT: Cell reactivation after ultraviolet and ionizing irradiations is dependent on 1) character of radiation injuries, 2) state of cell activity, and 3) cell structure and function. This paper is a detailed study of the third factor, particularly of the regulating effect of intracellular fat reserves. The variation of nutrient media by additions of saccharose and glyococoll to obtain yeast cells rich in fats and lipoids and the subsequent effect on oxidation processes and radioresistance in irradiated cells have been described previously (Biofizika, 2, no. 1, 101 (1958)). In the present tests, the total content of fats and lipoids determined in 48 hr cultures of Endomyces magnusii (EM) by extraction with sulfuric ether was 11.5% (dry weight) on a suitable nutrient medium as compared
Card (1/5)

Importance of intracellular fat...

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B144/B101

to 2.2% on unsuitable media. Cells were correspondingly termed as rich and poor in fat. 2% suspensions of both types were irradiated in a PPM-M (RTP1-M) x-ray apparatus (210 kw, 15 ma, 3760 r/min, without filter). EM were irradiated with 150 and 250 kr and *Saccharomyces vini* with 100 kr. Cells and controls were subcultured in Petri dishes with agarized beer wort immediately after irradiation and kept 6 - 9 days at 28°C as 0.2 - 0.02% suspensions in sterile tap water with daily subculturing in wort agar dishes. Reactivation was judged from the percentage of colonies (colonies in nonirradiated controls = 100%). It has been found that EM cells rich in fat have much higher reactivation levels and radioresistances (Fig. 1). The state of the fat inclusions was studied in luminescent light in cells treated with aqueous solution of Nile blue. The intracellular fat proved to be utilized in the process of cell reactivation. The present studies confirm increased reactivation in cells rich in fats and prove that their reactivation level is much higher, particularly in the first 24 hr. There are 2 figures and 8 references: 6 Soviet and 2 non-Soviet. The reference to the English-language publication reads as follows: W. A. Pratt, W. S. Moos, M. Eden, J. Nat. Cancer Inst., 15, 4, 1039 (1955).

Card 2/3

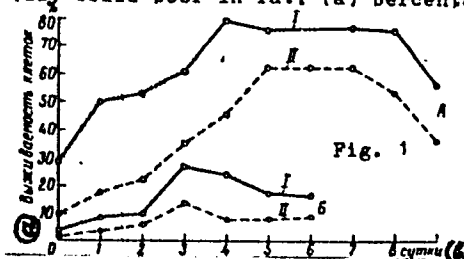
Importance of intracellular fat...

S/020/62/142/003/025/027
B144/B101

ASSOCIATION: Institut mikrobiologii Akademii nauk SSSR (Institute of Microbiology of the Academy of Sciences USSR). Institut biologicheskoy fiziki Akademii nauk SSSR (Institute of Biophysics of the Academy of Sciences USSR)

SUBMITTED: October 3, 1961

Fig. 1. Reactivation of EM cells after irradiation with 150 kr (A) and 250 kr (B).
Legend: (I) cells rich in fat; (II) cells poor in fat; (a) percentage of cell survivals; (b) days.



Card 3/3

ALEXSEYVA, V. M.

"Fat and Lipoid Components of Cells, Their Condition and Significance During Radiation."

Irradiation of animal and yeast cells produces changes in the luminescence of lipids and increases the quantity of peroxides and fatty acids. The absence of fatty and lipid reserves exerts a regulating influence on the intensity of oxidative processes in the cell and increases its radiation stability by 30%.

candidate dissertation listed in Meditsinskaya radiologiya, no. 7, 1964. The article did not state specifically what degree was awarded. The annotated titles deal with studies on radiation physiology, radiation biochemistry, combined trauma and the influence of radiation on regenerative processes, radiation microbiology and immunology, and radiation pharmacology.

PEREL'MAN, M.I.; ALEXSEYEVA, V.M.; GARGOLOVA, V.O.; GOROKHOVA, Ye.M.; IOFFE, F.M.; LEVITIN, F.I.

Significance of compound treatment in the effectiveness of surgical interventions in pulmonary tuberculosis. Vest. khir. 92 no.4:28-32 Ap '64 (MIRA 18:1)

1. In kafedry tuberkuleza TSentral'nogo instituta usovershenstvovaniya vrachev (rektor - M.D. Kovrigina) bol'nitsy Ministerstva putey soobshcheniya (glavnyy vrach - A.A.Potsubenko) i klinicheskoy bol'nitsy "Zakhar'ino" (glavnyy vrach V.P.Petrik).

KANENIN, L.D.; ALEKSEYEVA, V.M.; IVROU, V.G.

Automatic calculation of luminescent micro-objects. Mikrobiologiya
34 no.1:171-175 Ja-F '65. (MIRA 18:7)

1. Institut biologicheskoy fiziki AN SSSR.

LITVINENKO, I. I.; KSENYEVA, V.M.; OBOVSKOY, G.N.

Study of the morphology of microorganisms by using automatic
analyser for microobjects. Biofizika 10 no.3:463-469 '65.
(MIRA 18:11)

1. Institut biologicheskoy fiziki AN SSSR, Moskva. Submitted
Jan. 24, 1963.

ALEXSEYEVA, V.M.; KAMINIR, L.B.

Fluorometric method of determining the amount of lipids
in yeast cells. TSitologiya 7 no.6:776-779 N.D '65.

(MIRA 19:1)

1. Laboratoriya biofiziki zhivyykh struktur Instituta biologicheskoy
fiziki AN SSSR, Moskva. Submitted September 26, 1964.

ACC NR: AP6028191 (A) SOURCE CODE: UR/0032/66/032/006/0696/0700

AUTHOR: Rusanov, A. K.; Alekseyeva, V. M.; Il'yasova, N. V.

ORG: All-Union Scientific Research Institute for Mineral Raw Materials (Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya)

TITLE: Elimination of the mutual effect of tantalum and niobium in the spectrum analysis of mineral ores

SOURCE: Zavodskaya laboratoriya, v. 32, no. 6, 1966, 696-700

TOPIC TAGS: spectrum analysis, tantalum, niobium cobalt compound

ABSTRACT: The article proposes a spectral method for simultaneous determination of niobium and tantalum, which eliminates the mutual effect of these two elements. The method is based on the addition of cobalt chloride to the samples being analyzed. In the interval 0.00%-0.1%, the reproducibility (variation coefficient) of a single determination of tantalum and niobium is 11%. It was found that the effect of niobium on the intensity of the tantalum lines can be eliminated by the creation of conditions under which tantalum will appear in the arc cloud independently of the appearance of niobium. This is achieved by the addition to the samples of reagents (metal chlorides or fluorides) which lead to the formation of new compounds. The experimental results given in the article were obtained by additions of anhydrous cobalt chloride. It

Cord 1/2 UDC: 543.42

ACC NR: AP5028191

follows from the data that both tantalum and niobium can be determined by this method in spite of the presence of up to 2% niobium in silicate ores. It was found that considerable changes in concentration of tungsten, zirconium, and thorium in the samples do not affect the intensity of the niobium lines. Orig. art. has: 6 figures and 2 tables.

SUB CODE: 07, 11/ SUBM DATE: none/ ORIG REF: 004

Card 2/2

ALEKSHIEVA, Y.P.; P'YANKOVA, M.D.; SULTANBEK, R.K.

Albumin-urea-formaldehyde glue for particle boards. Der.prom. 10
no.5:20 My '61. (MIRA 14:5)
(Glue) (Hardboard)

[illegible]

80485

S/020/60/132/02/32/067
B011/B002

5.3830

AUTHORS: Korshak, V. V., Corresponding Member AS USSR, Sosin, S. L.,
Aleksuyeva, V. P.

TITLE: The Production of New Types of Linear Polymers¹ by Means of the
Reaction of Polyrecombination

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 2, pp. 360-363

TEXT: The authors treated diphenylmethane, some of its derivatives, methyl ester of phenyl acetic acid, and benzyl benzoate with tertiary butylperoxide (1.2 and more moles per 1 mole of the initial substances) at 200°, according to the methods described in Ref. 2. Thus they obtained polymers containing no noticeable amounts of tridimensional structures. In such cases hitherto it was only possible to obtain dimers (Refs. 3, 10). Now a linear polymer was obtained from diphenylmethane which the authors consider to be a polydiphenylmethylene (I) and which hitherto has not been known (see Scheme). It is a yellowish powder soluble in benzene, with a melting point of 205-220°. Its molecular weight varies between 10000 and 900000, according to the molar ratio between peroxide and hydrocarbon. Against all expectations, this polymer shows no inclination

Card 1/3

The Production of New Types of Linear Polymers by Means of the Reaction of Polyrecombination ⁶⁰⁴⁸⁵ S/020/60/132/02/32/067
BO11/BO02

to decompose into free radicals in the presence of diphenylpicrylhydrazine. It is also largely stable towards HNO_3 and chromium mixtures. It is very probable that the stability of the polymer is due to the fact that the first product of the polyrecombination reaction, namely the dimer tetraphenylethane,¹ is a completely stable compound (Ref. 5). The structure of polydiphenyl methylene (I) was also confirmed by IR-spectra. On the basis of their results, the authors concluded the following: tertiary butylperoxide decomposes in such a way that 1 mole of peroxide develops only 1 mole of active radicals instead of 2. Hence the maximum of the molecular weight; 2 moles of peroxide consumption per 1 mole of hydrocarbon. Half of the liberated radicals which developed originally, are used for side reactions. From the above-mentioned compounds and others given in table 1 the authors in the same way produced linear polymers with a high molecular weight, soluble in benzene. If durene, ditolylmethane, p,p'-di-isopropyl diphenyl, benzylacetate or other compounds are introduced into the reaction instead of diphenylmethane, large amounts of indissoluble polymers develop besides linear polymers. Their structure apparently is cross-linked by methyl groups. Polyrecombination allows the production of linear polymers with aromatic cycles not only in their side-, but also in their main chains. Finally the authors state that polyrecombination will only produce linear polymers of a

Card 2/3

The Production of New Types of Linear Polymers by
Means of the Reaction of Polyrecombination

80485

S/020/60/132/02/32/067
B011/B002

high molecular weight, if the compounds used do not contain groups which may act as branch points of the polymer chain. There are 2 figures, 1 table, and 14 references, 7 of which are Soviet. ✓

ASSOCIATION: Institut elementoorganicheskikh sovedineniy Akademii nauk SSSR
(Institute of Elemental Organic Compounds of the Academy of Sciences,
USSR)

SUBMITTED: February 3, 1960

Card 3/3

VILENSKAYA, R.M.; FRANKEL', S.Ya., red.; ALIKSEYeva, V.P., bibliogr.red.;
KUZ'MIN, A.A., vedushchiy red.; SIL'CHENKOVA, V.V., tekhn.red.

[Bibliographic index of works of scientific personnel of the
Institute of High Molecular Weight Compounds of the Academy of
Sciences of the U.S.S.R., 1949-1959] Bibliograficheskii ukazatel'
rabot nauchnykh sotrudnikov Instituta vysokomolekulyarnykh soedinenii
AN SSSR, 1949-1959 gg. Sost.R.M.Vilenskaya. Pod red. S.IA. Frankel's.
Leningrad, 1961. 103 p. (MIRA 14:2)

1. Akademiya nauk SSSR. Institut vysokomolekulyarnykh soedineniy.
(Bibliography--Macromolecular compounds)

158:50 1372 2209 2405 1526

27570

S/120/61/003/003/005/016
B110/B101

AUTHORS: Korshak, V. V., Sosin, S. L., Alekseyeva, V. P.

TITLE: Synthesis of new types of linear polymers

PERIODICAL: Vysokomolekulyarnyye soedineniya, v. 3, no. 9, 1961,
1332-1340

TEXT: The first two authors showed in previous papers (Ref. 1: Dokl. AN SSSR., 121, 299, 1958; Ref. 2: Vysokomolek. soed., 1, 938, 1959) that when treating peroxides (PO) of compounds such as p-diisopropyl benzene (DIPB), diisopropyl ferrocene, p-dichloro benzene, etc., linear polymers are formed, and, particularly in the case of DIPB, non-fusible and insoluble polymers with cross-linked trimer structure. Polyrecombination of diphenyl methane (DPH), phenyl acetic acid methyl ester, benzyl benzoate, etc., was studied in the present work. When treating these compounds with tert-butyl peroxide (TBPO) (molar ratio of TBPO to initial compound $\geq 1-2$) at 200°C, linear polymers were obtained. Diphenyl methane (DPH) gave a linear polymer, an amorphous, yellowish powder which dissolved in benzene (melting point = 200-220°C) with a molecular weight

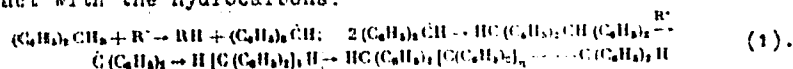
Card 1/7

Synthesis of new types ...

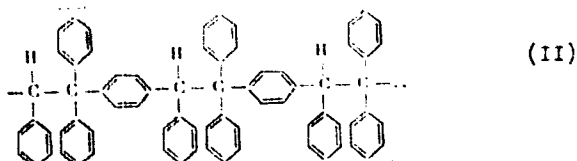
27570
S/125/61/003/009/005/016
P110/P101

(k) of 10,000-900,000, depending on the molar ratio.

$[\eta] = 2.18 \cdot 10^{-5} k^{0.528}$. The following reactions take place:
 $(CH_3)_3COOC(CH_3)_3 \rightarrow 2(CH_3)_3CO^*(R^*)$; $(CH_3)_3CO^* \rightarrow (CH_3)_2CO + CH_3(R^*)$. The radicals react with the hydrocarbons:



The resultant polydiphenyl methylene (PDPM) (1) does not decompose to free radicals in the presence of diphenyl picryl hydrazine, and is stable to oxidants (HNO_3), since the structure of tetraphenyl ethane (TTE) which is probably formed initially does not permit the formation of stable radicals. Rearrangements might take place according to



Card 2/7

27570

S/190/61/003/009/005/016
B110/B101

Synthesis of new types ...

change in viscosity. In A, TPE is formed (melting point 209-211°C, i.e., higher than the reaction temperature), and viscosity considerably increases. In B, however, it decreases since the low-molecular polymers melt already at 180-190°C. The reaction of TPE which is first accelerated is then retarded by the formation of high-molecular polymers (melting point 200°C). The viscosity will be reduced toward the end of the reaction by adding a DPM-PO mixture to DPM; the yield increases. Peroxide admixture of > 2 moles/mole of DPM graphically results in a steep ascent of the molecular weight which asymptotically approaches the ordinate. Assuming that the chain grows by doubling (dimer, tetramer, octamer), the following holds: $N_R = 2 - 2/n$, where N_R = number of free radicals/moles;

n = polymerization coefficient. 1 mole of free radicals is formed on decomposition of TBPO. Maximum M is thus obtained for a PO consumption of 2 moles/mole of hydrocarbon. 0.68 mole tert-butoxyl radicals result from 1 mole PO (in the form of tert-butyl alcohol). 1.32 mole of radicals decomposes to give 1.32 mole acetone and 0.66 mole methane, as follows:

(A) $(CH_3)_3CO \xrightarrow{140^\circ C} (CH_3)_2CO + CH_3$, and (B) $(CH_3)_3CO \xrightarrow{190-200^\circ C} (CH_3)_2CO + CH_3-O-C-(CH_3)_2$. According to Yu. A. Aleksandrova, Huan Yü-li, A. P.

Card 4/7

27570

S/190/61/003/009/005/016
B110/B101

Synthesis of new types ...

change in viscosity. In A, TPE is formed (melting point 209-211°C, i.e., higher than the reaction temperature), and viscosity considerably increases. In B, however, it decreases since the low-molecular polymers melt already at 180-190°C. The reaction of TPE which is first accelerated is then retarded by the formation of high-molecular polymers (melting point 200°C). The viscosity will be reduced toward the end of the reaction by adding a DPM-PO mixture to DPM; the yield increases. Peroxide admixture of > 2 moles/mole of DPM graphically results in a steep ascent of the molecular weight which asymptotically approaches the ordinate. Assuming that the chain grows by doubling (dimer, tetramer, octamer), the following holds: $N_R = 2 - 2/n$, where N_R = number of free radicals/moles;

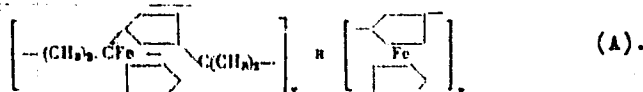
n = polymerization coefficient. 1 mole of free radicals is formed on decomposition of TBPO. Maximum M is thus obtained for a PO consumption of 2 moles/mole of hydrocarbon. 0.66 mole tert-butoxyl radicals result from 1 mole PO (in the form of tert-butyl alcohol). 1.32 mole of radicals decomposes to give 1.32 mole acetone and 0.66 mole methane, as follows:

(A) $(CH_3)_3CO \xrightarrow{140^\circ C} (CH_3)_2CO + CH_3$, and (B) $(CH_3)_3CO \xrightarrow{190-200^\circ C} (CH_3)_2CO + CH_3-O-C-(CH_3)_3$. According to Yu. A. Aleksandrova, Huan Yü-li, A. P.
Card 4/7

Synthesis of new types ...

27570
S/190/61/003/009/005/016
B110/B101

Pravednikov, S. S. Medvedev (Dokl. AN SSSR, 123, 1029, 1958), no methyl radicals are formed in (B) which takes place at higher temperatures. Isobutylene oxide results on initiation of the peroxide decomposition. The authors separated the fraction (51-53°C): isobutyl-methyl ether and isobutylene oxide. In the same way, they obtained polymers which dissolved in benzene. When using ditolyl methane instead of DPM, a polymer insoluble in benzene and p-cresol (melting point 180-240°C) with cross-linked structure is obtained in addition to linear polymers (melting point = 150-180°C, molecular weight = 2500). The elemental-organic polymers obtained from diisopropyl ferrocene, ferrocene, and triphenyl-tri-N-isopropyl borazol (TFNI) by means of polyrecombination showed IR absorption maxima at 820, 1000, and 1100 cm⁻¹, and, accordingly, structure



M = 1000-7000; they are dark-red powders soluble in benzene (softening point ~300°C). The electron paramagnetic resonance signal (line width
Card 5/7

Synthesis of new types ...

27570
S/190/61/003/009/005/016
B110/3101

120 cc, 20°C) confirmed the existence of unpaired electrons (concentration 10^{21} /g polymer). Treatment of TPNI with TBPO yielded only a soluble, low-molecular polymer. Polyrecombination gives also polymers with aromatic rings in side and principal chains. A soluble copolymer was obtained by treating a mixture of DPM (0.1 mole) and DIPB (0.1 mole) with 0.25 mole TBPO; DIPB alone gave a nearly insoluble polymer. 2,5-dichloro-p-xylene gives a chlorinated analog of poly-p-xylene soluble in benzene. Cl in ortho-position to the CH_3 groups blocks them and prevents their participation in the formation of linear chains. Polyrecombination thus results in carbon chain polymers with aromatic rings in the principal chain, whose production is difficult. Gas chromatography of DPM was made on the X-2 (Kh-2) apparatus. There are 4 figures, 1 table, and 18 references: 6 Soviet and 12 non-Soviet. The three most recent references to English-language publications read as follows: Ref. 7: G. A. Russel, J. Amer. Chem. Soc., 78, 1047, 1956; Ref. 9: J. H. Brook, Trans. Faraday Soc., 53, 327, 1957; Ref. 10: K. M. Johnston, G. H. Williams, Chem. and Chem. Ind. 1956, No. 11, 328.

ASSOCIATION: Institut elementoorganicheskikh soedineniy AN SSSR
(Institute of Elemental Organic Compounds AS USSR)

Card 6/7

[illegible]

the United States, and the United States is the only country in the world that has a free press.

100-443887-1003/003/0663/0669

Author: Merzlova, Ye. M.

Figure 1. Infrared spectra of the polymers of a polymer prepared by the polycondensation of 1,4-bis(hydroxymethyl)benzene with 1,4-bis(hydroxymethyl)benzene.

SOURCE: 1946-1948 LABOR MARKET CONJUNCTURES, V. 3, 1963, 663-669

TOPIC TAGS: Polytransamination, polymer, phenyl trifluoroacetate, electron

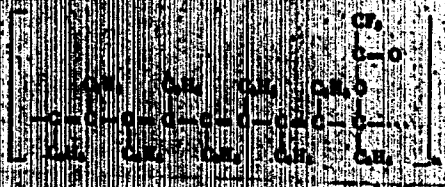
ABSTRACT: The structure properties of a polymer prepared by the polyrecombination of benzyl carboxylate have been studied at the Institute of Organometal Chemistry, USSR by IR and EPR spectroscopy and by the method of thermo-mechanical curves. The polymer is synthesized at 170°C in the presence of tert-butyl peroxide by a generally accepted method (V. V. Korshak, S. L. Sosin, V. V. Chukhovskiy, *Russian Chemical Reviews*, **1960**, *29*, 55) and the reaction products are isolated and analysed. Study of the thermomechanical curves indicates that the polymer exhibits elastic properties at 220 to 350°C. As the peroxide/monomer ratio is varied from 2.15 to 3.05%, the polymer yield varies from 7.05 to 8.44% of the reacted monomer, the mol. wt. from 1020 to 32,000 and the softening point from 198 to 380°C. The EPR spectrum of

THE

1. 11055-63

Accession No. AF1000651

polymer showed a narrow (0.4-0.5 ppm) and intense signal, indicating the presence of unpaired electrons. Absence of the ESR signal by both the solid polymer and its benzene solution shows that electrons are delocalized within the polymer backbone. The assumption that the ESR spectrum is due to the presence of non-paired electrons is confirmed by the IR spectra. The IR spectrum also indicates that in the polymer, as in the monomer, the fluorine is found in the ester group. These spectroscopic data and elemental analysis of the polymer suggest that it has the following structure:



where every 7th or 9th C atom has a trifluoroacetate substituent. This structure is probably formed by the splitting off of most of the trifluoroacetate groups.

Card 2/5

U.1100X-03

ACCESSION NO. AF0000001

in the polymerization; these are unstable and undergo further decomposition.
Orig. art. has 3 figures, 4 Formulations and 1 table.

ASSOCIATION: Institut khimicheskoy fiziki sovedineniy AN SSSR (Institute
of Organometallic Compounds, AN SSSR)

SUBMITTED: 09Oct61

DATE ACQ: 17Jan63

EMCL: 00

THE CODE: CH, RA

NO REF NOV: 007

OTHER: 006

non/wnw/
Card 3/3

SOSIN, S.L.; KORSHAK, V.V.; ALEXSEYEVA, V.P.

Polymers and copolymers of derivatives of ferrocene obtained by
the polyrecombination method. Dokl. AN SSSR 149 no.2:327-329
M- '63. (MIRA 16:3)

1. Institut elementoorganicheskikh soedineniy AN SSSR.
2. Chlen-korrespondent AN SSSR (for Korshak).
(Ferrocene) (Polymerization)

SOSIN, S.I.; KOTSHAK, V.V.; ALEKSEENKO, V.I.

Possibility of preparing high-molecular weight compounds
from diphenylgermane under conditions of polyrecombination
reaction. Vysokom.sped. o no. 5:827-831 My '64. (MIRA 17:6)

1. Institut elementoorganicheskikh soedineniy AN SSSR.

ACCESSION NR: AP4032577

S/0190/64/006/004/0745/0750

AUTHORS: Sosin, S. I.; Korshak, V. V.; Alekseyeva, V. P.

TITLE: A study of the possibility of synthesizing high molecular compounds from diphenylsilane under conditions of the polyrecombination reaction

SOURCE: Vysokomolek. soedin., v. 6, no. 4, 1964, 745-750

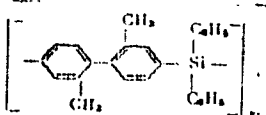
TOPIC TAGS: organosilicon compound, diphenylsilane, triphenylsilane, tetraphenylsilane, phenylsilane polyrecombination, phenylsilane heterochain polymer, tetraphenylsilane polymer, diphenylsilane disproportionation, UR 10 spectroscopy, Trub Taubur spectrometer

ABSTRACT: The polyrecombination of diphenylsilane was conducted in the presence of tert-butyl peroxide in a special apparatus at 170 and 200°C. The reaction products were treated with benzene, and the soluble polymer was precipitated with methanol. The obtained compounds were fractionated, analyzed chemically, and examined by infrared spectroscopy on a UR-10 apparatus and on a nuclear magnetic resonance Trub Taubur spectrometer. The main polymer isolated by the authors

Card 1/3

ACCESSION NR: APL032577

is ascribed the formula



Its formation may have proceeded through the intermediate product tetraphenylsilane, which has been isolated from the reaction products together with triphenylsilane and hydrosilicon. Since at a 1:0.1 molar ratio of the issuing diphenylsilane and peroxide only 4% of diphenylsilane could be recovered, it is assumed that a disproportionation reaction takes place in which some of the products become involved in the building of the polymer chain. This assumption is supported by the fact that increased concentrations of the peroxide result in a higher yield of tetraphenylsilane. Heating of the obtained polydiphenylsilane of molecular weight 1530 to 900C in a quartz tube yielded a polymer with a molecular weight of 810. The benzene-insoluble fraction of the diphenylsilane polymerization reaction products yielded a polymer of 190 500 molecular weight. Orig. art. has: 5 formulas and 1 chart.

Card 2/3

ACCESSION NR: APL032577

ASSOCIATION: Institut elementoorganicheskikh sovedineniy AN SSSR (Institute of
Organoelemental Compounds, AN SSSR)

SUBMITTED: 01Jun63

DATE ACQ: 11May64

ENCL: 00

SUB CODE: CH

NO REF SOV: 005

OTHER: 009

Card 3/3

ACCESSION NR: APL037279

S/0190/64/006/005/0827/0831

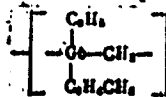
AUTHORS: Sosin, S. I.; Korshak, V. V.; Alekseyeva, V. P.

TITLE: A study of the possibility of obtaining high molecular compounds from diphenylgermanium under conditions of the polyrecombination reaction

SOURCE: Vyssokomolekulyarnyye soedineniya, v. 6, no. 5, 1964, 827-831

TOPIC TACS: diphenylgermanium polyrecombination, diphenylgermanium high molecular compound, diphenylgermanium disproportionation reaction, diphenylgermanium disproportionation product, tetraphenylgermanium, diphenylgermanium, germanium hydride

ABSTRACT: The polyrecombination of diphenylgermanium was conducted at 200C (in the presence of tert.butyl peroxide) by a technique described by the authors in an earlier publication (Vyssokomolek. soed. 3, 1332, 1961). The reaction product was treated with benzene, and the soluble fraction was precipitated with methanol. It was found that the disproportionation of diphenylgermanium produced 50% of a polymer



Card 1/2

ACCESSION NR: AP4037279

(with a maximum molecular weight of 1840) and also tetraphenylgermanium, triphenylgermanium, and germanium hydride, the presence of which was confirmed by infrared spectroscopy. The thermal disproportionation of diphenylgermanium also took place without tert.butyl peroxide at 200C and at 140C. A copolymer of diphenylgermanium with diphenylmethane in equimolar ratio was synthesized in the presence of tert.-butyl peroxide, yielding an amorphous brown product with a molecular weight of 4800. Orig. art. has: 4 formulas.

ASSOCIATION: Institut elementoorganicheskikh soedineniy AN SSSR (Institute of Organoelemental Compounds, AN SSSR)

SUBMITTED: 01Jun63

DATE ACQ: 09Jun64

ENCL: 00

SUB CODE: MT

NO REF SOV: 004

OTHER: 008

Card 2/2

SOSIN, B.L.; MORSHAK, V.V.; ALENSEYEVA, V.P.

Possibility of synthesizing macromolecular compounds from
diphenylsilane under conditions of the polyrecombination
reaction. Vysokom. soed. 6 no.4:745-750 Ap '64.

(MIRA 17:6)

1. Institut elementoorganicheskikh soedineniy AN SSSR.

VILENSKAYA, Raisa Markovna; FRENKEL', S.Ya., doktor fiz.-mat.
nauk, red.; ALEKSEYEVA, V.F., red.; KUTASOVA, E.I., red.

[High-molecular compounds; bibliographic index o. Soviet
and foreign books, 1930-1963] Vysokomolekulyarnye soedine-
niia; bibliograficheskii ukazatel' otechestvennykh i zaru-
beznykh knig 1930-1963. Leningrad, 1965. 368 p.
(MIRA 18:10)

1. Akademiya nauk SSSR. Biblioteka.

ALEKSEYEVA, V. S.

Nerves - Surgery

Surgical therapy of peripheral paralyse of the facial nerve (anastomosis of facial and accessory nerves), Vop. neirokhir, 16, No. 3, 1952.

Monthly List of Russian Accessions. Library of Congress October 1952 UNCLASSIFIED.

ALIKSHYVA, V.S.

Clinical aspects and surgical therapy of neurinoma of the Gasserian ganglion. Vop. neirokhir. 18 no.5:17-22 S-O '54. (MLRA 7:11)

1. In Instituta neyrokhirurgii imeni N.N.Burdenko Akademii meditsinskikh nauk SSSR.

(NERVES, TRIGEMINAL,
gasserian ganglion, neurilemmoma, surg.)
(NEURILEMMOMA,
gasserian ganglion, surg.)

ALIKSHYINA, V.S., kand.med.nauk (Moskva)

Medulloblastomas of the posterior cranial fossa in adults. Top.
neirokhir. 23 no.6:30-33 M-D '59. (MIRA 13:4)

1. Nauchno-issledovatel'skiy ordena Trudovogo Krasnogo Znameni
institut neyrokhirurgii imeni akademika N.N. Burdenko AMN SSSR.
(MEDULLOBLASTOMA)
(SKULL neoplasms)

ALEKSEYEVA, V.S., kand.med.nauk

Topography of intracerebral tumors of the parietal lobe. Probl.
sovr.neirokhir. 3:99-112 '59. (MIRA 16:6)
(BRAIN—CANCER)

ALIKSHTEVA, V.S., kand.med.nauk

Clinical aspects and surgical treatment of nodular bones of
sarcomas of the cerebellum. Probl.sovr.neirokhir. 4:230-234
1962, (MIRA 16:2)

(CEREBELLUM—TUMORS)

5(3)

SOV/79-29-9-41/76

AUTHORS: Lutskiy, A. Ye., Aleksseyeva, V. T.

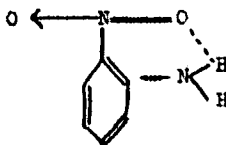
TITLE: Intramolecular Hydrogen Bond and Absorption Spectra in the Ultraviolet. VI. Absorption Spectra of Nitro-aniline

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 9, pp 2992 - 2998 (USSR)

ABSTRACT: The absorption spectra of o-, m- and p- nitro-anilines were frequently investigated by spectrum analysis (Refs 1-9). The characteristic features of their spectra are explained by the formation of quinoid structures (Ref 1), by the varying stability of the intramolecular bonds of the isomers (without explaining their nature) (Ref 2), and by the difference in their energy levels between which electron transitions take place (Refs 7,8,10). On the basis of the physical and chemical properties of these compounds (Refs 11-14) the intramolecular hydrogen bond is assumed to be only present in the ortho-isomer.

Card 1/3

Intramolecular Hydrogen Bond and Absorption Spectra SOV/79-29-9-41/76
in the Ultraviolet. VI. Absorption Spectra of Nitro-aniline



The relation between the individual absorption bands and certain kinds of electron transition is bound to be reflected by the kind of its variation when another solvent is used. For this reason the authors determined the spectra of nitrobenzene, aniline, and o-, m-, p-nitro-aniline in six different solvents which had hitherto not been used for such investigations, i.e. benzene, chloroform, diethyl ether, n-butanol and sulphuric acid (98% and 9.8%). Figures 1-6 show the results of investigation. They reveal that the characteristics of the nitro-aniline spectra are similar to those observed in all disubstituted benzenes with active groups,

Card 2/3

Intramolecular Hydrogen Bond and Absorption Spectra in the Ultraviolet. VI. Absorption Spectra of Nitro-aniline SOV/79-29-9-41/76

observed in all disubstituted benzenes with active groups, i.e. with a nucleophilic and electrophilic group. The long-wave band of nitro-anilines is an $\pi \rightarrow \pi^*$ -band of electron transitions in which the electrons of both functional groups take part. In o-nitro-aniline the intramolecular hydrogen bond is characterized by a distinct shift and broadening of the band (A) toward the long-wave range. The table shows the data characteristic of the absorption spectra of nitro-anilines. There are 6 figures, 1 table, and 26 references, 8 of which are Soviet.

ASSOCIATION: Khar'kovskiy politekhnicheskii institut (Khar'kov Polytechnic Institute)

SUBMITTED: July 27, 1958

CHRS 3/3

5(3)

SOV/79-29-9-42/76

AUTHORS: Latskiy, A. Ye., Alekseyeva, V. T.

TITLE: Absorption Spectra of Disubstituted Benzenes With Functional Groups Acting in the Same Way. I. Nitro-acetophenone

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 9, pp 2998 - 3005 (USSR)

ABSTRACT: To clarify the nature of the electron transitions which correspond to the various ultraviolet absorption bands of the aromatic compounds, it is necessary to investigate the characteristics of absorption in the case of disubstituted benzenes containing functional groups acting in the same way. The spectra of the compounds of this kind (nitro-acetophenone, nitro-benzaldehyde, dinitro-benzene, etc) have been investigated several times (Refs 1-8), as a rule, however, only in hexane or ethanol without consideration of all isomers. Knowledge of the character of the variation in the absorption bands in polar, hydroxyl-containing, and acid solvents is necessary (Refs 9-11) for a determination of the nature of the electron transitions. The spectra of the compounds of this kind were investigated in the following seven solutions: in apolar ones

Card 1/3

Absorption Spectra of Disubstituted Benzenes With Functional Groups Acting in the Same Way. I. Nitro-acetophenone S07/79-29-9-42/76

(hexane, benzene, dioxane), in a polar solution (ether), a hydroxyl-containing one (n-butanol) as well as in 98 and 9.8% sulphuric acid. The results of measurement of the spectra of nitro-benzene and its o-, m-, and p-acetyl derivatives in the aforementioned solvents are given. The absorption curves of nitro-acetophenones are similar with respect to the number and position of the absorption bands as well as to the variation caused by the nature of the solvent; this similarity refers also to the absorption curves of the monosubstituted compounds (mainly nitro-benzene). The characteristic features of the spectra of the kinds of compounds under investigation are due to the hindered transition of the charge in molecule excitation under the participation of the electrons of both substituents. The presence of a steric effect of the groups is only confirmed by o-nitro-acetophenone. The bands corresponding to the $\pi \rightarrow \pi^*$ transitions do not undergo a hypsochromic shift in hydrogen-containing solvents and acids in groups with π - and some p-electron pairs. There are 11 figures, 1 table, and 21 references, 4 of which are Soviet.

Card 2/5

Absorption Spectra of Disubstituted Benzenes With SOV/79-29-9-42/76
Functional Groups Acting in the Same Way. I. Nitro-acetophenone

ASSOCIATION: Khar'kovskiy politekhnicheskii institut (Khar'kov Polytechnic
Institute)

SUBMITTED: July 27, 1958

Card 3/3

LUTSKIY, A.Ie.; ALEKSEYVA, V.T.

Absorption spectra of disubstituted benzene derivatives having
functional groups of the same directing influence. Part 3:
Nitrobenzoic acids and ethylnitrobenzoates. Zhur.ob.khim. 30
no.8:2737-2742 Ag '60. (MIRA 13:8)
(Benzoic acid--Spectra)

LUTSHIY, A.Ye.; ALEKSEYEVA, V.T.; KONDRATENKO, B.P.

Dipole moments of disubstituted benzenes having electron-acceptor functional groups. Zhur.fiz.khim. 35 no.8:1706-1709 Aug '61. (MIRA 14:8)

1. Khar'kovskiy politekhnicheskii institut imeni V.I. Lenina.

(Benzene--Dipole moments)

PHASE I BOOK EXPLOITATION

SOV/4769

Ostroushko, Yu. I., P. I. Buchikhin, V. V. Alekseyeva, T. F. Naboyshchikova,
G. A. Kovda, S. A. Shelkova, R. N. Alekseyeva, and M. A. Makovetskaya

Litii, yego khimiya i tekhnologiya (Lithium, its Chemistry, and Technology)
Moscow, Atomizdat, 1960. 198 p. Errata slip inserted. 5,000 copies
printed.

Ed.: Ye. I. Papisenkova; Tech. Ed.: Ye. I. Mazel'.

PURPOSE: This book is intended for scientific workers, metallurgical engineers,
and chemists working in the chemistry and technology of rare and sparsely dis-
tributed elements. Engineers and mechanics in charge of lithium production,
and students in schools of higher education and in tekhnikums may find the
book useful.

COVERAGE: The book deals with the geochemistry and mineralogy of lithium, the
chemistry of lithium and its compounds, analytical chemistry of lithium,
d of lithium ores, methods of processing lithium ores, and the metal-

Casa.

Lithium, its Chemistry, and Technology (Cont.)

SOV/4769

lurgy of lithium. It is based on Soviet and other technical literature published from 1918 through 1958. No personalities are mentioned. References accompany each chapter.

TABLE OF CONTENTS:

Introduction	3
Ch. I. The Geochemistry and Mineralogy of Lithium	
Geochemical characteristics of lithium	7
Occurrence of lithium in nature	7
Special features of the geochemistry of lithium	8
Types of lithium deposits	9
Mineralogy of lithium	12
Silicates	12
Silicates with unbroken chains of tetrahedra	12
Silicates with unbroken layers of tetrahedra	20
Skeleton silicates	23

Card 12/17

OSTROUSHKO, Ym.I.; ALEKSEYEVA, V.V.

Geothermal waters as a potential source of lithium. Atom.energ. 10
no.4:419-420 Ap '61. (MIRA 14:14)
(Lithium)

ALIKSHYNA, V.Ya

1944.11.11 (MIRA 12:8)

Case of cervical pregnancy. Akush. i gin. 35 no.3:114-115
My-Je '59. (MIRA 12:8)

1. Is rodil'nogo doma No.22 (glavnyy vrach L.V.Ostrovityanova)
Gorodskoy klinicheskoy bol'nitsy No.2.
(PREGNANCY, ECTOPIC
cervical (Rus))

NIKOLAYCHIK, Nikolay Panteleyevich; NIKOLAYCHIK, Yevgeniy Nikolayevich;
FURSOV, S., kand.tekhn.nauk, retsenzent; ALEKSEYENVA, Ye., red.;
VORONTSOVA, Z., tekhn.red.

[Ultrasonics in the national economy] Ul'trasvuk v narodnom
khozimistve. Izhevsk, Udmurtskoe knizhnoe izd-vo, 1959. 54 p.
(Ultrasonic waves--Industrial applications) (MIRA 13:12)

ALBESNYEVA, IS. A.

NEPORENT, M.I.; ALBESNYEVA, IS. A.

Motor function of the small intestine in Addison-Biermer's anemia.
Terap.srkh. 29 no.3:85-89 Mr '57. (MLRA 10:8)

1. Iz fakul'tetskoy terapevticheskoy kliniki (dir. - deystvitel'nyy
cheln AMN SSSR prof. V.N.Vinogradov) i Moskovskogo ordena Lenina
meditsinskogo instituta imeni I.M.Sechenova
(ANEMIA, PERNICIOUS, physiology.
intestine, small, motor funct. (Rus))
(INTESTINE, SMALL, invarious diseases,
anemia, pernicious, motor funct. (Rus))

11.05.1971, 19. A.

5773. Zameniteli gubinskiy - gubinskiy prints v yuzhno-ostrovnyy. N. 196. 14a. s 111
21m (K-vo transp. mashinostroyeniya SSSR. Vsesoyuz. Proektno-tekhnol. inst.
VETI: Obozr tekhn. obratn. VET. 116). 600 str. B. ts.-vst. ukazan na 3 y c.-
(54-150308) 625.2.002: 667.67.

50: Knizhnaya, Letopis, Vol. 1, 1955

AIKHEYEVA, Ye.A., kand.sel'skokhozyaystvennykh nauk; ADMIRA 'SKAYA, S.A.

High-yield selected varieties of mint for production. Masl.-zhir.
prom. 26 no.5:34-36 Ky '60. (MIRA 13:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut maslichnykh i
efiromaslichnykh kul'tur.
(Krasnodar Territory--Peppermint-oil)

KOSTENKO, Mikhail Poliyevktovich, akademik: FICHTENBERG, Ignat'ik
Bart'yonovich; CHECHET, Yu.S., prof., retirement;
USSEN, A.S. kand. tekhn. nauk, red. V.I.DER. A.I.,
doktor tekhn. nauk, red.; PRUSS-CHIROVSKIY, V.V., nauchn.
red.; ALEKSEYEVA, Ye.A., red.

[Electrical machinery] Elektricheskoye mashiny. 1 t. 2.,
Moskva, Energiya. Fizmatgiz. 1971. 112 s. (1971)

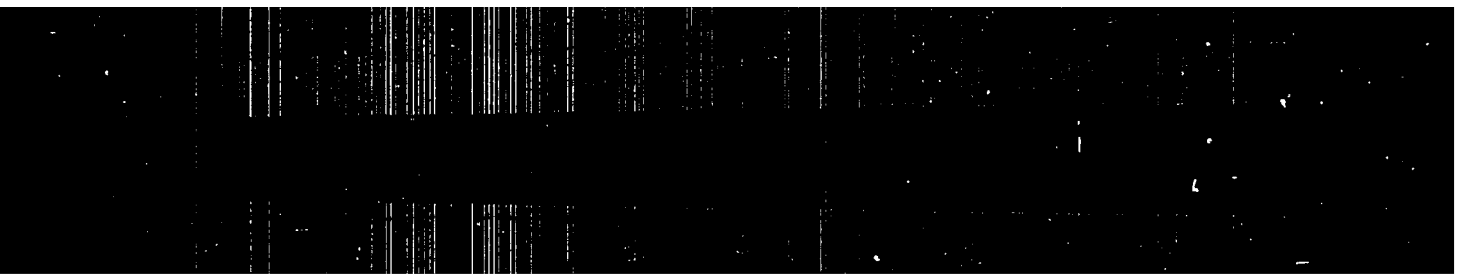
TRALIN, Ivan Mikhaylovich; PETROV, V.A., retsenzent;
SHTEYNSHAYDER, M.B., inzh., nauchn. red.; ALEXANDER,
Ys.A., red.

[Assembly-line production of electrical instruments] Po-
tochnoe proizvodstvo elektricheskikh priborov. Moskva,
Energia, 1965. 343 p. (MIRA 18:7)

1. Zavod "Vibrator", Leningrad (for Shteynshtayder).

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CIA-RDP86-00513R000101010010-7"

DOMEROVSKAYA, N.S., doktor khimicheskikh nauk; ALEKSEYEVA, Ye.A., inzh.

Increasing the wear resistance of metals by chemical heat
treatment. Trudy NIIKHIMMASH no.27:142-149 '59. (MIRA 14:8)
(Case hardening)

5(2,4)

AUTHORS:

Dombrovskaya, N. S., Aleksseyeva, Ye. A. SOV/20-127-5-24/58

TITLE:

A Mutual 7-Component System of 16 Salts of Li, Na, Rb, Tl || Br, Cl, NO₃, SO₄ in Melts

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 5, pp 1019-1022 (USSR)

ABSTRACT:

From the practical point of view the investigation of multi-component systems is of high importance for the investigation of natural and technological processes. A complete investigation of such systems is very complicated. Methods of a simpler solution of these problems were shown already in the thirties by N. S. Kurnakov and his collaborators (Refs 1-4). The composition of the mentioned systems is represented geometrically by n-dimensional polytopes. The system mentioned in the title which was investigated by the authors contains the following systems of components:

16 systems of 1-components of the type AX
48 binary systems of the type AX — BX
32 ternary systems of the type A||X, Y, Z
36 ternary mutual systems of the type A, B||X, Y
8 quaternary systems of the type A||X, Y, Z, T

Card 1/5

A Mutual 7-Component System of 16 Salts of
Li, Na, Rb, Tl || Br, Cl, NO₃, SO₄ in Melts

SOV/2C-127-5-24/58

48 quaternary mutual systems of the type A, B || X, Y, Z
12 quintary mutual systems of 8 salts A, B || X, Y, Z, T
16 quintary mutual systems of 9 salts A, B, C || X, Y, Z
8 hexadic mutual systems of 12 salts A, B, C || X, Y, Z, T

D e t e r m i n a t i o n of the s i n g u l a r s t a r .
Such an (equilibrium) star is determined by the stable diagonals
of the ternary mutual systems, by the stable diagonal triangles
of the quaternary mutual systems, by the stable diagonal
tetrahedra of the quintary mutual systems etc. (Refs 2-4). It is
practical to use the table of indices of the polytope peaks which
were used for the geometrical representation of the compositions
of multi-component systems: the peak indices of multi-component
systems are determined by the number of stable diagonals passing
through the polytope peak concerned. Table 1 shows the peak
indices of the mutual systems from 6, 8, 9, and 12 salts.

The m u t u a l s y s t e m (as mentioned in the title) is a
6-dimensional polytope (Ref 4). Table 2 shows the peak indices
for this polytope. The singular star contains the most stable

Card 2/3

A Mutual 7-Component System of 16 Salts of
Li, Na, K, Tl, Br, Cl, NO_3 , SO_4 in Melts

SOV/20-127-5-24/58

"base" tetrahedron 9-5-5-9 Li_2SO_4 - KCl - RbNO_3 - TlBr
(first mentioned by V. P. Radishchev). It is placed in the center of a cube and 6 pentatopes have it in common in the centers of the cube-facets; 12 base pentatopes are placed in the center of quadratic cycles; 30 hexatopes are in the middle of the edges; 20 heptatopes are at the peaks of the squares and of the 2 prolongations. Figure 1 shows the singular star of the system mentioned in the title. It has a double symmetry with a center of symmetry. The mentioned system may be attributed to the class of the reversible-mutual systems. There are 1 figure, 2 tables, and 8 Soviet references.

PRESENTED: April 4, 1959, by I. I. Chernyayev, Academician

SUBLITTED: March 30, 1959

Card 3/3

ALEXANDER, YE. I. and N. G. DOMBAYEVAYA, (Doctor of Technical Sciences)

Development of Methods for the Thermochemical Treatment of Metal Surfaces for the Purpose of Increasing Their Wear Resistance.

Povsheniye iznositel'nosti i sproyazhnyy rezhanie. t. 2 (Increasing the Wear Resistance and Extending the Service Life of Machines. v. 2) Kiev, Izd-vo AN UkrSSR, 1960. 290 p. 3,000 copies printed. (Series: Its: Izdaty, t. 2)

Sponsoring Agency: Vsesoyuznoye nauchno-tekhnicheskoye obshchestvo mashinostroyitel'noy promyshlennosti. Tsentral'noye i Kiyevskoye oblastnoye pravliniye. Institut mekhaniki AN UkrSSR.

Editorial Board: Hon. Ed.: B. B. Grozin; Deputy Hon. Ed.: D. A. Draygor; M. I. Braun, I. M. Figner, M. I. V. Kragol'skiy; Scientific Secretary: M. L. Samobash; Ed. of v. 2: Ya. A. Samokhvalov; Tech. Ed.: N. I. Radolina.

CONTENTS: The collection contains papers presented at the third Scientific Technical Conference held in Kiev in September 1957 on problems of increasing the wear resistance and extending the service life of machines. The conference was sponsored by the Institut stroitel'noy mekhaniki AN UkrSSR (Institute of Structural Mechanics of the Academy of Sciences Ukrainian SSR), and by the Kiyevskaya oblastnaya organizatsiya nauchno-tekhnicheskogo obshchestva mashinostroyitel'noy promyshlennosti (Kiev Regional Organization of the Scientific Technical Society of the Machine-Building Industry).